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1884/85

# UNIVERSITY

OF

## PENNSYLVANIA

CATALOGUE AND ANNOUNCEMENT

1884-85

### Department of Dentistry



THE CATALOGUE OF THE

SEPT 17 1884

UNIVERSITY OF PENNSYLVANIA

PHILADELPHIA

PRINTED FOR THE UNIVERSITY

1885



# UNIVERSITY OF PENNSYLVANIA

Medical and Dental Departments

UNIVERSITY  
OF  
PENNSYLVANIA

CATALOGUE AND ANNOUNCEMENT

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Department of Dentistry

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## 1884.

Sept. 15, Monday.	College Year begins. 10 A. M.
" 15, "	First Term begins, Department of Biology.
Oct. 1, Wednesday.	First Term begins, Department of Law.
" 6, Monday.	First Term begins, Department of Music.
Nov. 27, Thursday.	Thanksgiving Day. (Holiday.)
Dec. 8, Monday.	Lectures of the Auxiliary Faculty of Medicine begin. 12 Noon.
" 24, Wednesday.	Christmas Recess begins.

## 1885.

Jan. 2, Friday.	Christmas Recess ends. 9 A. M.
" 29, Thursday.	Mid-Year Examinations end, College Department.
" 30, Friday.	First Term ends, College Department. Chapel at 10 A. M.
" 30, "	First Term ends, Department of Law.
Feb. 2, Monday.	Second Term begins, College Department. 10 A. M.
" 2, "	Second Term begins, Department of Law.
" 2, "	Second Term begins, Department of Biology.
April 1, Wednesday.	Easter Recess begins, College Department. P. M.
" 3, Friday.	Good Friday. (Legal Holiday.)

## EASTER RECESS.

" 7, Tuesday.	Easter Recess ends, College Department. 9 A. M.
" 13, Monday.	Final and Term Examinations begin, Departments of Medicine and Dentistry.
" 22, Wednesday.	Examination for Resident Physicians, University Hospital. 12 Noon.
May 1, Friday.	Annual Commencement, Departments of Medicine and Dentistry. 12 Noon.
" 6, Wednesday.	Spring Session opens, Departments of Medicine and Dentistry. 12 Noon.
" 15, Friday.	Announcement of Results, Senior Examinations, College Department. 10 A. M.
" 20, Wednesday.	Examination begins, Department of Law.
" 30, Saturday.	Second Term ends, Department of Law.
June 12, Friday.	Announcement of Results, Annual Examinations, College Department. 10 A. M.
" 15, Monday.	Annual Commencement, College Department, Department of Law, and Auxiliary Department of Medicine. 11 A. M.
" 16 to 23.	Entrance Examinations, College Department. 9 A.M. each day.

## SUMMER VACATION.

Sept. 7 to 12.	Entrance Examinations, College Department. 9 A.M. each day.
" 14, Monday.	College Year begins. 10 A. M.
" 14, "	First Term begins, Department of Biology.
" 14, "	Preliminary Course opens, Departments of Medicine, Dentistry, and Veterinary Medicine. 11 A. M.
" 25, Friday.	Competitive Examination for Medical Scholarships. 12 Noon.
" 28, Monday.	Examinations for Admission to Advanced Standing, and Re-examination of Undergraduates, Departments of Medicine and Dentistry. 12 Noon.
" 29, Tuesday.	Entrance Examination, Departments of Medicine and Veterinary Medicine. 12 Noon.
Oct. 1, Thursday.	Winter Session opens, Departments of Medicine, Dentistry, and Veterinary Medicine. 12 Noon.
" 1, "	First Term begins, Department of Law.
" 5, Monday.	First Term begins, Department of Music.
" 5, "	Lectures of the Auxiliary Faculty of Medicine begin.

PROVOST OF THE UNIVERSITY,  
WILLIAM PEPPER, M.D., LL.D.,  
President *pro tempore* of the Board of Trustees.

TRUSTEES.

THE GOVERNOR OF PENNSYLVANIA, *ex-officio* President of the Board.  
REV. HENRY J. MORTON, D.D.,  
FREDERICK FRALEY, LL.D.,  
REV. CHARLES W. SCHAEFFER, D.D.,  
JOHN WELSH, LL.D.,  
RT. REV. WILLIAM BACON STEVENS, D.D., LL.D.,  
JOHN ASHHURST,  
WILLIAM SELLERS,  
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J. VAUGHAN MERRICK,  
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RICHARD WOOD,  
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JOSHUA B. LIPPINCOTT,  
CHARLES C. HARRISON,  
JAMES H. HUTCHINSON, M.D.,  
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HORACE HOWARD FURNESS, LL.D.,  
WHARTON BARKER,  
SAMUEL DICKSON,  
JOHN SCOTT,  
JAMES MACALISTER,  
JOHN C. SIMS, JR.

REV. JESSE Y. BURK, Secretary,  
University.

WHARTON BARKER, Treasurer,  
125 South Fourth St., Philadelphia.

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CHAIRMEN OF STANDING COMMITTEES FOR THE YEAR 1884-5.

WAYS AND MEANS: HON. JOHN WELSH, LL.D., 304 Walnut St.

BUILDINGS, ESTATES, AND PROPERTY: J. B. LIPPINCOTT, Esq., 715 Market St.

LIBRARY: H. H. FURNESS, LL.D., 222 South Seventh St.

DEPARTMENT OF ARTS: FREDERICK FRALEY, LL.D., 1000 Walnut St.

DEPARTMENT OF MEDICINE: S. WEIR MITCHELL, M.D., 1524 Walnut St.

DEPARTMENT OF LAW: HON. JOHN SCOTT, 3813 Chestnut St.

DEPARTMENT OF SCIENCE: J. VAUGHAN MERRICK, Esq., Roxboro'.

DEPARTMENT OF FINANCE AND ECONOMY: WHARTON BARKER, Esq., 28 South Third Street.

DEPARTMENT OF VETERINARY MEDICINE: J. B. LIPPINCOTT, Esq., 715 Market St.

DEPARTMENT OF PHYSICAL CULTURE: SAMUEL DICKSON, Esq., 32 S. Third St.

DEPARTMENT OF BIOLOGY: J. VAUGHAN MERRICK, Esq., Roxboro'.

\* Deceased.

## GENERAL STATEMENT.

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The UNIVERSITY OF PENNSYLVANIA is the successor of the COLLEGE OF PHILADELPHIA, which was founded chiefly through the influence of Dr. BENJAMIN FRANKLIN and Dr. WILLIAM SMITH. Dr. Smith, the first PROVOST, is conspicuous in American college history for establishing here in 1757 the *curriculum* of study that was adopted substantially by all the colleges of later foundation. The College of Philadelphia was chartered in 1755, and is therefore the sixth in the order of succession of American colleges. Instruction is given in nine Departments, viz:—

THE COLLEGE DEPARTMENT, *including*

THE COURSE IN ARTS . . . . .	Established in	1755.
THE TECHNICAL COURSES IN SCIENCE . . . . .	"	" 1872.
(The Towne Scientific School).		
THE COURSE IN PHILOSOPHY . . . . .	"	" 1885.
THE COURSE IN FINANCE AND ECONOMY . . . . .	"	" 1881.
(The Wharton School).		
THE COURSE IN MUSIC . . . . .	"	" 1877.
THE DEPARTMENT OF MEDICINE . . . . .	"	" 1765.
THE DEPARTMENT OF LAW . . . . .	"	" 1789.
THE AUXILIARY DEPARTMENT OF MEDICINE . . . . .	"	" 1865.
THE DEPARTMENT OF DENTISTRY . . . . .	"	" 1878.
THE DEPARTMENT OF PHILOSOPHY . . . . .	"	" 1882.
THE DEPARTMENT OF VETERINARY MEDICINE . . . . .	"	" 1883.
THE DEPARTMENT OF BIOLOGY . . . . .	"	" 1884.
THE DEPARTMENT OF PHYSICAL CULTURE . . . . .	"	" 1884.

The buildings and grounds occupy over thirty acres of land in West Philadelphia. The situation is very healthful, and free access of both light and air is assured, since the buildings stand on high ground and at wide intervals from each other. The University is so remote from the more crowded business and manufacturing sections of the city as to insure the quiet indispensable for study and health. There are no objectionable surroundings near either the University itself or the numerous comfortable boarding-houses in which the students commonly live.

The fine athletic grounds, occupying  $3\frac{1}{2}$  acres, immediately adjoining the University, will be ready for the use of students during the coming spring.

# DEPARTMENT OF DENTISTRY.

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## FACULTY.

- WILLIAM PEPPER, M.D., LL.D., PROVOST OF THE UNIVERSITY, and *ex-officio* President of the Faculty.  
 CHARLES J. ESSIG, M.D., D.D.S., Professor of Mechanical Dentistry and Metallurgy.  
 EDWIN T. DARBY, M.D., D.D.S., Professor of Operative Dentistry and Dental Histology.  
 JAMES TRUMAN, D.D.S., Professor of Dental Pathology, Therapeutics and Materia Medica.  
 JOSEPH LEIDY, M.D., LL.D., Professor of Anatomy.  
 HARRISON ALLEN, M.D.,\* Professor of Physiology.  
 THEODORE G. WORMLEY, M.D., LL.D., Professor of Chemistry.
- 

ROBERT HUEY, D.D.S., Lecturer on Operative Dentistry.

## CLINICAL INSTRUCTORS.

- |                       |                       |
|-----------------------|-----------------------|
| DR. C. S. BECK,       | DR. H. C. REGISTER,   |
| DR. LOUIS JACK,       | DR. R. H. SHOEMAKER,  |
| DR. W. G. A. BONWILL, | DR. J. A. WARDELL,    |
| DR. W. R. MILLARD,    | DR. J. A. WOODWARD,   |
| DR. R. R. UNDERWOOD,  | DR. H. C. LONGNECKER. |
| DR. E. H. NEALL,      |                       |

## DEMONSTRATORS.

- WM. DIEHL, D.D.S., Demonstrator of Operative Dentistry.  
 WM. LEWIS CAVE, D.D.S., Demonstrator of Mechanical Dentistry.  
 J. JUDSON EDWARDS, D.D.S., Assistant Demonstrator of Mechanical Dentistry.  
 JOSEPH W. NOBLE, D.D.S., Assistant Demonstrator of Operative Dentistry.  
 LUTHER H. GRAVES, D.D.S., Assistant Demonstrator of Operative Dentistry.  
 JOHN MARSHALL, M.D., NAT. SC. D., Demonstrator of Practical Chemistry.  
 JOHN B. DEAVER, M.D., Demonstrator of Anatomy.

## COURSE OF STUDY.

The Course extends over two years, and in each year there are three sessions, the Spring, the Preliminary, and the Winter Session. By this arrangement, students are spared the necessity of securing a preceptor during their stay in the city; the Faculty deeming attendance during the spring and summer months equivalent to private instruction. *Such attendance, however, is not to be considered in any way a substitute for the Winter Session.*

During the Preliminary Session there are one or more lectures a day upon important practical subjects, or on matters collateral with the subjects of the Winter Session. During the Winter Session the following is the arrangement of studies:

\* Resigned. The course on Physiology for the session of 1885-86 will be given by Dr. Edward T. Reichert.

## FIRST YEAR.

<i>Hour.</i>	<i>Monday.</i>	<i>Tuesday.</i>	<i>Wednesday.</i>	<i>Thursday.</i>	<i>Friday.</i>	<i>Saturday.</i>
9 A. M.	General Chemistry.	General Chemistry.				
10 A. M.	Mechanical Clinic.			Mechanical Clinic.	Mechanical Clinic.	
11 A. M.		Chemical Laboratory.	Chemical Laboratory.			
12 M.						
1 P. M.		Operative Clinic.		Operative Clinic.	Operative Clinic.	
2½ P. M.	Operative Clinic.		Operative Clinic.			Clinic.
3½ P. M.		Anatomy.		Anatomy.	Anatomy.	
4½ P. M.	Physiology.		Physiology.		Physiology.	
5½ P. M.	Mechanical Dentistry.	Operative Dentistry.	Metallurgy.	Operative Dentistry.	Dental Pathology, Therapeutics, and Materia Medica.	

The curriculum of the first year is identical for Medical and Dental students as far as Anatomy, Chemistry, and Physiology are concerned.

## SECOND YEAR.

<i>Hour.</i>	<i>Monday.</i>	<i>Tuesday.</i>	<i>Wednesday.</i>	<i>Thursday.</i>	<i>Friday.</i>	<i>Saturday.</i>
9 A. M.	Laboratory of Mechanical Dentistry, or Operative Clinic.					
10 A. M.						
11 A. M.			University Hospital Clinics.			
12 M.						
1 P. M.		Operative Clinic.	Operative Clinic.	Operative Clinic.	Operative Clinic.	
2½ P. M.						Clinic.
3½ P. M.	Operative Clinic.	Anatomy.		Anatomy.	Anatomy.	
4½ P. M.	Physiology.		Physiology.		Physiology.	
5½ P. M.	Mechanical Dentistry.	Operative Dentistry.	Metallurgy.	Operative Dentistry.	Dental Pathology, Therapeutics, and Materia Medica.	

In order to facilitate work in the practical departments, and fully employ the student's time, the first year student devotes the morning hours equally to dental and chemical laboratory work.

The second year student has the entire forenoon of each day for practical dental work. Every opportunity is afforded for practice in operative and mechanical dentistry.

The graded course, with its examinations at the close of the first year, not only economizes time, but facilitates the acquisition of a knowledge of the remaining branches.

#### OUTLINE OF THE COURSE.

The lectures on OPERATIVE DENTISTRY AND DENTAL HISTOLOGY embrace the comparative anatomy of the teeth, the functions and microscopical peculiarities of the dental organs, the development of teeth, their component tissues, a full description of the materials and instruments used in operative dentistry, a thorough elucidation of all dental operations, such as filling, extracting, regulating, the pathological relations of the teeth to the other parts of the system, and a minute description of all special diseases related to dental surgery, or of interest to the dentist. The theories taught are demonstrated in clinics.

The instruction in MECHANICAL DENTISTRY AND METALLURGY embraces the proper fitting up of a dental laboratory; the use of tools; the melting, refining, alloying, and working of metals and alloys used by the dentist; the chemical and physical properties of materials pertaining to ceramic dentistry, their preparation, and the most approved formulæ for compounding bodies and enamels for the manufacture of block teeth and continuous gum work; the history and properties of all substances used in making artificial dentures; as well as the mechanical treatment of cleft palate, including the several methods of constructing obturators for such cases, whether congenital or acquired. The lectures in this department also include every approved mechanical means of correcting irregularities of the teeth. They are amply illustrated by specimens, models, diagrams, and practical application in the laboratory, under the supervision of accomplished mechanical dentists. Special attention will be directed to the higher branches of plate work, the continuous gum process, and carving teeth.

Every student is required to furnish his own bench tools for

metal and rubber work, and will be provided with a place in which they can be locked when not in use.

The lectures in CHEMISTRY embrace the study of chemical physics and principles of chemical philosophy, together with a detailed consideration of the principal elementary substances and their compounds, and of the fundamental principles of organic chemistry, including the classification of organic compounds, and the special study of typical members of the different classes. Special attention is also given to the laws of chemical affinity, and the conditions under which they are modified, especially as they relate to the preparation of mixtures and prescriptions.

The course in practical chemistry in the working laboratory includes exercises in chemical manipulation, the study of the chemical properties and reactions of the principal metals, acids, and their combinations, and the general principles of qualitative analysis, especially as they relate to the detection and separation of the metals and compounds of interest to practitioners in all branches of medicine. Each student is provided with a separate table and apparatus, and is required to perform all the usual chemical manipulations under the direction of demonstrators, as well as to exhibit by formulæ, on paper, all reactions involved in his tests.

HUMAN ANATOMY is taught in its relations to all the departments of medicine, including dentistry. The lectures are illustrated by fresh dissections of the human body, and a rich museum of anatomical specimens, large and well-executed models, and drawings.

The course on PHYSIOLOGY includes lectures and demonstrations on the entire human physiology and on physiological chemistry. The study of the physiology of each organ is preceded by a full consideration of its histology. The course is amply illustrated by appropriate diagrams, chemico-physiological experiments, and vivisections.

The lectures on DENTAL PATHOLOGY include such portions of general pathology as have a bearing upon the special subjects taught. Dentition, and its possible pathological results, will receive careful attention, followed by a detailed consideration of all the diseases to which the teeth and surrounding parts are liable, the character—normal and abnormal—of the oral secretions, and the direct and remote relations which the pathological conditions of the mouth sustain to other portions of the system.

The treatment required under each head will be explained, and the recognized processes by which to secure a return to normal conditions, be minutely detailed.

MATERIA MEDICA will be taught with special reference to the character and value of those remedies that have a direct or indirect bearing upon dental therapeutics.

#### CLINICAL INSTRUCTION.

Four hours daily (except Saturday) are spent in actual practice under the supervision of the Demonstrators. Every student is required to provide his own instruments, except those for extracting. He is expected to keep them in perfect order, and will be provided with a place in which they can be locked when not in use. In the operating room, wires are arranged to a number of the chairs for the use of electric pluggers.

#### TEXT-BOOKS AND WORKS OF REFERENCE.

- On Operative Dentistry and Dental Histology:* Harris' *Principles and Practice*; Tomes' *Dental Surgery*; Taft's *Operative Dentistry*; Tomes' *Dental Anatomy*.
- On Mechanical Dentistry and Metallurgy:* Richardson's *Mechanical Dentistry*; Wildman's *Instruction in Vulcanite Work*; Kingsley's *Oral Deformities*; Essig's *Dental Metallurgy*.
- On Anatomy:* Leidy's *Elementary Treatise on Human Anatomy*; Gray's *Anatomy*; Stricker's *Manual of Histology*.
- Dental Follicle:* Legros and Magitot, translated by M. S. Dean.
- On Chemistry:* Fownes' or Wurtz's *Chemistry*; Wormley's *Micro-Chemistry of Poisons*; Muter's *Analytical Chemistry*.
- On Physiology:* Foster's *Physiology*, with Frey's *Compendium of Histology*; Tyson's *Cell Doctrine*; Carpenter's *Physiology*, by Smith.
- On Materia Medica:* H. C. Wood's *Therapeutics*; Geo. B. Wood's *Therapeutics*; Wood and Bache's *Dispensatory*.
- On Surgery:* Agnew's *Surgery*; Ashhurst's *Surgery*; Billroth's *Surgical Pathology*.

#### INFIRMARY AND LABORATORY.

The Infirmary and Laboratory are open to the student for the prosecution of the practical part of his studies under the guidance and supervision of competent demonstrators. During the Preliminary and the Winter Session, a Clinical Lecture is given and operations performed by one of the Professors every Saturday.

#### THE STILLÉ MEDICAL LIBRARY.

This Library, which was founded by Professor Alfred Stillé for the purpose of promoting a spirit of scientific research and literary culture, contains upwards of four thousand volumes. During the Winter and Spring Sessions it is accessible to students and graduates of the Dental Department under appropriate regulations.

### MUSEUM AND CABINETS.

The WISTAR AND HORNER MUSEUM, founded nearly ONE HUNDRED YEARS ago, and annually augmented, is unequalled in the United States for the number and variety of its specimens of the normal and the morbid anatomy of every part of the human body. It also contains a large number of preparations in comparative anatomy, a rich collection of specimens relating to Dentistry, such as the different stages of dentition, abnormal conditions of the teeth, mandibles of the lower animals, etc., and an extensive collection of artistic models, which are used in illustrating the several courses of lectures. It is open on Wednesday and Saturday of each week, from 9 A. M. to 12 M., throughout the session. The ticket of matriculation in this Department entitles the holder to admission to the Museum.

### ARRANGEMENT OF SESSIONS.

The *Spring Session*, 1885, begins on Monday, May 4th, and ends the 15th of June. The work of this session is entirely practical; no lectures are delivered.

The *Preliminary Session* begins on Monday, September 14th.

The *Winter Session*, 1885-86, begins on Thursday, October 1st, 1885, and ends on May 1st, 1886.

### FALL SESSION.

THE FALL COURSE is free of charge to those who enter for the Winter Session.

### EXAMINATIONS.

At the close of the first year, examinations are held in chemistry and *materia medica*. If the student is not qualified, a second examination is afforded him at the beginning of the next winter session.

The final examination is in anatomy, physiology, operative dentistry, mechanical dentistry and metallurgy, and dental pathology and therapeutics.

Students who have attended one full term in another dental school recognized by the Faculty, will be admitted to the graduating class, upon presentation of the required certificate.

Students holding a medical diploma will be admitted to the Senior Class, but will be required to spend a year in the study of

practical Dentistry in the Operative and Mechanical Departments, the year to include the regular winter's course of lectures.

Students who have attended but one course in a medical college will be required to take two winter courses in this Department.

A preliminary examination will be required for entrance to the first or Junior year. The requirements of this examination will be a good English education.

Students who have certificates properly attested from colleges, or other schools of reputable character, will be accepted without examination.

#### DEGREES.

At the close of the second year, upon passing satisfactorily all his examinations and complying with the following regulations, the student will receive the degree of Doctor of Dental Surgery (D.D.S.):—

I. The candidate must be twenty-one years of age, and must have attended two full winter sessions,—the second, in this institution.

II. He must have dissected at least two parts; must prepare a thesis upon some subject connected with the theory or the practice of Dentistry; must treat thoroughly and bring before the Professor of Operative Dentistry a patient requiring all the usual dental operations; must take up at least one artificial case, and bring it completed, with the patient, before the Professor of Mechanical Dentistry, 30 days before the close of the term; and must prepare a specimen case, to be deposited in the College collection, and present it to the Professor of Mechanical Dentistry before the 1st of April. The operations must be performed, and the work on the artificial case done, at the College building.

Students of Dentistry, who wish the degree of Doctor of Medicine also, can take a three years' course; but they must notify the Secretary of the Department of Medicine of their intention before the beginning of the second session. They must then add to the studies of the second year, Medical Chemistry, General Pathology and Morbid Anatomy, Therapeutics, Theory and Practice of Medicine, Surgery, and Obstetrics, with clinics, medical and surgical. At the end of this year they are examined in Medical Chemistry, Anatomy, and Physiology, in addition to the dental branches. If qualified,

they then receive the degree of D.D.S., and pass on to the third year in medicine.

To such graduates the spring course is open for practice at the chair, or in the dental laboratory, free of additional charge.

In the third year they take the studies of the third year of the medical course, and at the end of the year pass an examination in Therapeutics, General Pathology and Morbid Anatomy, Theory and Practice of Medicine, Surgery, and Obstetrics.

#### EXPENSES.

##### FIRST YEAR.

Matriculation Fee . . . . .		\$5 00
General ticket, Winter Session . . . . .		100 00
		<hr/>
		\$105 00

##### SECOND YEAR. DENTISTRY ONLY.

General ticket, Winter Session . . . . .		\$100 00
Dissecting ticket (required) . . . . .		10 00
Graduation . . . . .		30 00
		<hr/>
Total fees for the two courses in dentistry, including graduation . . . . .		\$140 00

Total fees for the two courses in dentistry, including graduation . . . . . \$245 00

##### SECOND YEAR. DENTISTRY AND MEDICINE.

Matriculation in Medical Department . . . . .		\$5 00
Tuition for joint medical and dental studies . . . . .		190 00

##### THIRD YEAR. (MEDICINE.)

General ticket . . . . .		\$150 00
No graduation fee		

Third-year medical students who have graduated in the department of Dentistry are entitled to the use of the Operative Clinics and the Dental Laboratory free of charge.

Board can be obtained at from five to eight dollars per week, according to location and accommodations. In locations near the College, students generally pay about five dollars per week. This amount includes fire and light.

Persons desiring further information in regard to this Department should address the Secretary, giving Name, Post Town, County, and State.

Members of the profession who receive a copy of this Catalogue are requested to notify the Secretary should they change their residence, and to send postal card with names of dentists practising in the town or county in which they reside.

Members of the profession who have specimens of peculiarities of development or unusual pathological conditions, models of irregularities as to position of the natural teeth, etc. etc., and who will be

good enough to send the same by mail or otherwise to Prof. E. T. Darby, No. 1513 Walnut Street, Philadelphia, Pa., will receive suitable acknowledgment and thanks. The specimens will be nicely mounted, with the donor's name attached, and deposited in the College Museum.

JAMES TRUMAN, Secretary,  
3249 Chestnut Street, Philadelphia, Pa.

JOHN A. REIMOLD, Clerk,  
Dental Department, University.

### SECOND YEAR.

Allen, William Y.	Boston, Mass.	Boston Dental College.
Bailey, Edgar C.	Macon, Geo.	Missouri Dental Coll.
Bellis, Edward R.	Richmond, Ind.	W. N. Wilson.
Bromley, Frederick W., M.D.	Palmyra, Wis.	R. Peardon.
Bruns, August	Hanover, Germany.	University.
Carter, Ditson P.	Proctorville, Ohio.	University.
Couto, William S.	Saó Paulo, Brazil.	University.
Crissman, Ira B.	Freeport, Ill.	W. H. Taggart.
Dayton, Chas. Elmer	Stamford, Conn.	P. H. Brown.
Dick, George W. C.	Sumter, S. C.	H. B. Noble, Jr.
Dickinson, Edward B.	Chicopee, Mass.	C. S. Hurlbut.
Ehni, Robert F.	Toledo, Ohio.	E. E. Heffron.
Englert, G. Aegidius	Orange, N. J.	University.
Erskine, George W.	Philadelphia.	J. D. White, Jr.
Fergus, Oswald, L.D.S. (Faculty of Physicians and Surgeons)	Glasgow, Scotland.	Andrew Fergus.
Fisher, Frank W.	Syracuse, N. Y.	University.
Fridman, Andreas	Dalarne, Sweden.	Univ. of Christiania.
Gerdzen, Oscar	Conception, Chili.	Penna. Dental College.
Gibbons, Clifford	Brighton, England.	George Owen.
Gibbons, John F., B.A. (Cambridge)	Brighton, England.	University.
Gibbs, C. Franklin	Catskill, N. Y.	Gibbs & Wilcox.
Ginoyer, Louis	Saó Paulo, Brazil.	University.
Hammer, William J.	Greensburg.	University.
Hayward, Thaddeus T.	Minneapolis, Minn.	Bowman & Weeks.
Hertz, John C.	Hazelton.	Wm. H. Hertz.
Howe, Edward D.	Hollis, N. H.	Frank Bell.
Hugenschmidt, Arthur C.	Paris, France.	Thomas W. Evans.
Jack, L. Foster, M.D.	Philadelphia.	Louis Jack and Wm. Lewis Cave.
James, Benjamin B., A.M.	Evanston, Ill.	University.
Jones, Victor S.	Bethlehem.	Louis E. Sage.
Knapp, Frank C.	Bradford, N. Y.	University.
Lamadrid, Estanislao	Matanzas, Cuba.	University.
Llorach, Paul J. G.	Matanzas, Cuba.	University.
Long, William R.	Connellsville.	S. D. Woods.
Marsh, Adelbert W.	Constantia, N. Y.	B. T. Mason.
Mercer, Charles J.	Kennet Square.	Frank Bernard.
Milliken, George G.	Philadelphia.	University.
Millikin, Charles T.	Sacramento, Cal.	F. F. Tebbets.
Moore, U. S. Grant	Shamokin.	R. Hollenback.
Munroe, Grafton, A.B. (St. John's College)	Annapolis, Md.	University.
Nutting, Alfred	Philadelphia.	S. D. Strohm.

Orrock, Geo. Dall, M.B., C.M., (Univ.of Edin ) L.D.S., R.C.S.E.,etc.	Edinburgh, Scotland.	Chas. Matthew.
Parker, Edwin G.	Watertown, N. Y.	University.
Pardon, Edwin	Palmyra, Wis.	R. Pardon.
Pitts, John R.	Philadelphia.	University.
Rees, Chas. Hanson	Winchester, Ky.	B. G. Rees.
Roett, Clarence F.	Barbadoes, W. I.	University.
Roque, José	Matanzas, Cuba.	University.
Ryan, George B.	Sussex, Canada.	University.
Schmidt, John A.	Ilion, N. Y.	C. Cutler Smith.
Schroeder, Curt.	Breslau, Germany.	George Schroeder.
Shaw, Louis	Philadelphia.	James Martin.
Smith, Chas. Elmer	Davenport, Iowa.	Morgan & McCandless.
Smith, W. Albert	Salida, Col.	University.
Southwell, Claude A.	Milwaukee, Wis.	C. P. Southwell.
Southworth, Ernest L.	Sacramento, Cal.	S. S. Southworth.
Stapleton, J. Walter	Winchester, Ky.	W. W. Justice.
Starr, R. Walter	Philadelphia.	E. T. Starr.
Stine, Henry M.	Harrisburg.	G. W. Stine.
Wells, George H.	N. Hatfield, Mass.	W. H. Jones.
Winner, William L.	Williamsport.	J. M. Winner.

Students of the Second Year, 61.

#### FIRST YEAR.

Abarca, Filadelfo	Rivas, Nicaragua.	University.
Adams, James E.	Paris, Ill.	Ball & Whiteside.
Aguilar, Arturo	Leon, Nicaragua.	University.
Bentley, Delevan F.	Churchville, N. Y.	S. G. Wood
Bohn, Henry W.	Robesonia.	H. L. Johnson.
Borden, Walter A.	Allentown, N. J.	University.
Bordner, Charles M.	Berriesburg.	University.
Bradley, Wilmot V.	Westville, Conn.	University.
Calves, Antonio D.	Havana, Cuba.	University.
Campbell, John	Philadelphia.	B. F. Dowd.
Chambers, William M.	Philadelphia.	Wm. Chambers.
Cookingham, George T., A.B. (Williams)	Lee, Mass.	S. K. Saunders.
Davis, Charles H.	New Ipswich, N. H.	H. E. Ballou.
Dennison, James S.	Geneva, N. Y.	C. A. Slocum.
Dumas, Victor	Santiago, Cuba.	University.
Ensign, Charles L.	Norwich, N. Y.	M. O. Randall.
Fuller, Dwight B., Jr.	Philadelphia.	University.
Gasque, Elly A.	Marion, S. C.	University.
Griffin, Frank R.	Bellefontaine, Ohio.	A. E. Griffin.
Hammond, Julian T., Jr.	Frankford.	University.
Hawke, William W.	Hopewell, N. J.	P. J. Wilson.
Hills, J. Bartlett	Washington, D. C.	Thomas O. Hills.
Howland, Frank H.	Worcester, Mass.	A. A. Howland.
Huber, William S.	Lebanon.	W. A. Huber.
Keisel, James H.	Ambler.	University.
Lamoutte, Luis Alfredo	Ponce, Porto Rico.	University.
Long, W. Laurence	Honeybrook.	H. C. Longnecker.
Lowry, Samuel S.	Brookville.	M. B. Lowry.
McIntyre, Alex. A.	Summerside, P. E. I.	University.
Maercklein, Bernhard G.	Milwaukee, Wis.	University.
Maercklein, Reinhold E.	Milwaukee, Wis.	B. G. Maercklein.
Miller, Louis J.	Huntingdon.	University.
Paranhas, José	Porto Alegre, Brazil.	Primo and Moura.
Pérez, Eduardo A.	Guayaquil, Ecuador.	T. Martinez.
Pierce, Charles M.	Jamestown, N. Y.	M. F. Lenox.

Quick, E. Payson	Philadelphia.	Jacob Quick.
Ranpp, Octavio B.	Porto Alegre, Brazil.	University.
Robson, Thomas C.	Philadelphia.	Thomas Robson.
Saffrans, Thomas J.	Memphis, Tenn.	University.
Saffrans, William H.	Iuka, Miss.	J. Crenshaw.
Seelye, Henry G.	Middlebury, Conn.	F. E. Howard.
Shannon, George H.	Watertown, N. Y.	J. D. Huntington.
Smith, Franklin, A., Jr.	Philadelphia.	University.
Sollenberger, John A.	Carlisle.	T. B. Atkinson.
Sumner, Fred. L.	Norwich, N. Y.	C. G. Sumner.
Upp, Charles W.	Freeport, Ill.	Kingsley, Allen, & Sunderland.
Weaver, Luther M., A.B.(Peuna.Coll.)	Hanover.	University.
Webb, Albert T.	Freeport, Ill.	W. H. Taggart.
Wible, John H.	Greensburg.	Z. L. Waugaman.
Wicks, Parke W.	Syracuse, N. Y.	A. H. Matson.
Wiggins, Leslie M.	Central Norton, N. B.	S. L. Wiggins.
		Students of the First Year, 51.

Students of the second year	.	.	.	.	.	.	.	61
Students of the first year	.	.	.	.	.	.	.	51
Total	.	.	.	.	.	.	.	112

## SUMMARY.

Barbadoes, W. I.	.	1	Germany	.	.	2	Nicaragua, C. A.	.	2
Brazil	.	4	Illinois	.	.	5	Ohio	.	3
California	.	2	Indiana	.	.	1	Pennsylvania	.	32
Canada	.	1	Iowa	.	.	1	Porto Rico	.	1
Chili	.	1	Kentucky	.	.	2	Pr. Edward Island	.	1
Colorado	.	1	Maryland	.	.	1	Scotland	.	2
Connecticut	.	3	Massachusetts	.	.	5	South Carolina	.	2
Cuba	.	5	Minnesota	.	.	1	Sweden	.	1
District of Columbia	1		Mississippi	.	.	1	Tennessee	.	1
Ecuador	.	1	New Brunswick	.	.	1	Wisconsin	.	5
England	.	2	New Hampshire	.	.	2	Total	.	112
France	.	1	New Jersey	.	.	3			
Georgia	.	1	New York	.	.	13			

## GRADUATES, 1884.

At the Annual Commencement held May 1, 1884, at the American Academy of Music, the degree of DOCTOR OF DENTAL SURGERY was conferred, by WILLIAM PEPPER, M.D., LL.D., Provost, upon the following gentlemen:—

Aldcroftt, J. Gamwell	Hudson, N. Y.
Bermudez, Salvador	Leon, Nicaragua.
Bowers, Horace A.	Nashua, N. H.
Brown, Wistar P.	Philadelphia.
Campbell, William F., M.D.	Media.
Davila, Nemecio, Ph.D.	Santiago, Chili.
Emmert, John W.	Freeport, Ill.
Erskine, Stirling, M.D.	Philadelphia.
Entrikin, Joseph B.	Kennet Square.
Gastal, Edmund	Pelotas, Brazil.
Goettinger, Louis	Berlin, Germany.

Graves, Luther H.	Philadelphia.
Hert, Benedict S.	Rochester, N. Y.
Hiestand, Ira C.	Millersville.
Jimenez, Generoso A.	Havana, Cuba.
Loder, James E.	Philadelphia.
McCance, James L.	Oil City.
McMillan, Samuel J.	Cumberland, Md.
Maercklein, Robert	Milwaukee, Wis.
Miner, Howard A.	Guilford, N. Y.
Munn, Edgar W.	Freeport, Ill.
Noble, Henry B., Jr.	Washington, D. C.
Provost, Howard G.	Stamford, Conn.
Redpath, Philip E.	Niagara Falls, N. Y.
Robinson, F. Field Rokey	London, Eng.
Shockley, Abraham L.	Lakeville, Mass.
Skidmore, Luther W.	Morris, Ill.
Stebbins, Leonard S.	Springfield, Mass.
Stowell, Sidney S.	Peru, Mass.
Swartz, J. Torrence	Washington, D. C.
Tompkins, Clarence	Philadelphia.
Tripler, William C.	Philadelphia.
Walls, Frank H.	Vineland, N. J.
Watson, D. Stuart	Fairfield.

JUNE 13, 1884.

Cate, Wilbur T.

Springfield, Mass.

## SUMMARY.

Brazil . . . . 1	Germany . . . . 1	New York . . . . 4
Chili . . . . 1	Illinois . . . . 3	Nicaragua, C. A. . . 1
Connecticut . . . . 1	Maryland . . . . 1	Pennsylvania . . . . 11
Cuba . . . . 1	Massachusetts . . . . 4	Wisconsin . . . . 1
District of Columbia . . . . 2	New Hampshire . . . . 1	—
England . . . . 1	New Jersey . . . . 1	35

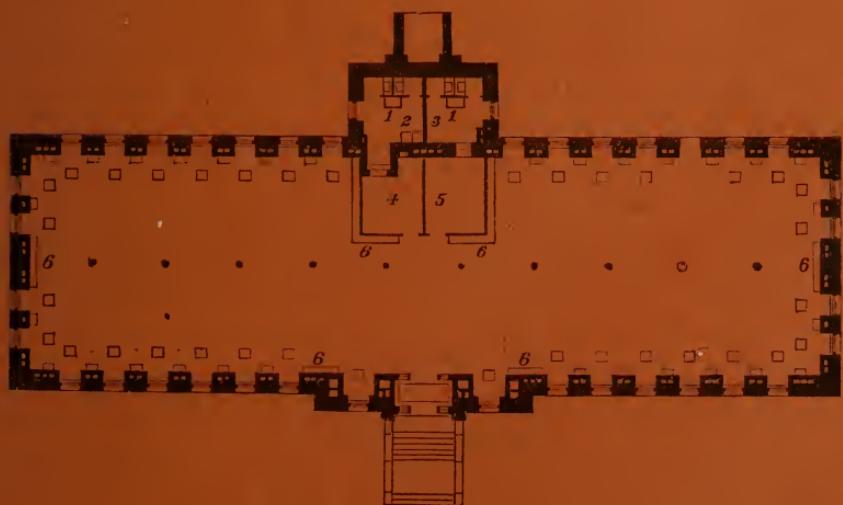
In the Faculty of Dentistry, at the examination for Degrees—

Honorable Mention for averages exceeding 90, to—

Howard G. Provost,	Conn.	John W. Emmert,	Ill.
Stirling Erskine, M.D.,	Penna.	Wm. F. Campbell, M.D.,	Penna.
F. F. Rokey Robinson,	Eng.	Benedict S. Hert,	N. Y.
Frank H. Walls,	N. J.	Howard A. Miner,	N. Y.
Ira C. Hiestand,	Penna.	Horace A. Bowers,	N. H.
Henry B. Noble, Jr.,	D. C.	Joseph B. Entrikin,	Penna.



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